

Amendment After FINAL  
U.S. Serial No. 10/619,380  
Inventor: Whitaker et al.  
Filed: July 14, 2003  
Attorney Docket No: 281-398.01

#### AMENDMENTS TO THE CLAIMS

1. (Canceled)
2. (Canceled)
3. (Canceled)
4. (Canceled)
5. (Canceled)
6. (Canceled).
7. (Currently Amended) ~~The apparatus of claim 6,~~ A blood pressure measurement apparatus configured to operate according to an oscillometric method of measuring blood pressure, comprising:
  - an inflatable chamber, said inflatable chamber operable to be inflated during an inflation interval and deflated during a deflation interval;
  - a sensor coupled to said inflatable chamber, said sensor configured to measure a signal according to the oscillometric method of measuring blood pressure, said signal comprising information indicative of a blood pressure of a vertebrate;
  - a control module configured to receive as input at least a portion of said signal from said sensor, and to generate as output a control signal having a selected one of a plurality of values responsive to said input;
  - a first analysis module, said first analysis module configured to analyze said signal during said inflation interval of said inflatable chamber at a rate greater than 3 mmHg per second before said inflatable chamber is fully inflated to extract from said signal a systolic blood pressure and a diastolic blood

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pressure of said vertebrate according to the oscillometric method of measuring blood pressure;

a second analysis module, said second analysis module selectively operative in response to one of said plurality of values of said control signal, said second analysis module configured to analyze said signal during said deflation interval of said inflatable chamber to extract from said signal said blood pressure of said vertebrate according to the oscillometric method of measuring blood pressure; and

a neonate sensor module configured to represent whether said vertebrate is a neonate vertebrate;

wherein in response to a positive determination that said vertebrate is a neonate vertebrate, said apparatus completes a blood pressure measurement of said neonate vertebrate using said second analysis module.

8. (Original) The apparatus of claim 7, wherein said signal analyzed by said second analysis module during said deflation interval comprises a signal occurring during at least one step deflation interval.
9. (Original) The apparatus of claim 7, wherein said blood pressure of said neonate vertebrate comprises at least one of a systolic blood pressure and a diastolic blood pressure.
10. (Original) The apparatus of claim 9, further comprising a reporting module configured to report at least one of said systolic blood pressure and said diastolic blood pressure.
11. (Canceled)
12. (Canceled)

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13. (Canceled)

14. (Canceled)

15. (Canceled)

16. (Canceled)

17. (Canceled)

18. (Canceled)

19. (Canceled)

20. (Canceled)

21. (Canceled)

22. (Canceled)

23. (Canceled)

Claim 24. (Currently Amended) ~~The apparatus of claim 23,~~ A blood pressure measurement apparatus configured to operate according to an oscillometric method of measuring blood pressure, comprising:

an inflatable chamber, said inflatable chamber operable to be inflated during an inflation interval and deflated during a deflation interval;

a sensor coupled to said inflatable chamber, said sensor configured to measure a signal according to the oscillometric method of measuring blood pressure, said

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signal comprising information indicative of a blood pressure of a vertebrate;  
a control module configured to receive as input at least a portion of said signal  
from said sensor, and to generate as output a control signal having a selected  
one of a plurality of values responsive to said input;  
a first analysis module, said first analysis module configured to analyze said  
signal during said inflation interval of said inflatable chamber at a rate greater  
than 3 mmHg per second before said inflatable chamber is fully inflated to  
extract from said signal a systolic blood pressure and a diastolic blood  
pressure of said vertebrate according to the oscillometric method of measuring  
blood pressure;  
a second analysis module, said second analysis module selectively operative in  
response to one of said plurality of values of said control signal, said second  
analysis module configured to analyze said signal during said deflation  
interval of said inflatable chamber to extract from said signal said blood  
pressure of said vertebrate according to the oscillometric method of measuring  
blood pressure;  
a motion detection module configured to receive as input at least a portion of said  
signal from said sensor, said motion detection module configured to detect a  
secondary motion of said vertebrate distinct from motion associated with said  
signal comprising information indicative of a blood pressure of a vertebrate  
and configured to communicate a value to said first analysis module; and  
a neonate sensor module configured to represent whether said vertebrate is a  
neonate vertebrate;  
whereby, in the event that said value of said secondary motion detected by said  
detection module is below a predetermined value, said apparatus completes a  
blood pressure measurement of said vertebrate using said first analysis  
module; and  
wherein in response to a positive determination that said vertebrate is a neonate  
vertebrate, said apparatus completes said blood pressure measurement of said

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neonate vertebrate using said second analysis module.

25. (Canceled)

Claim 26. (Currently Amended) The apparatus of claim 23, further comprising A blood pressure measurement apparatus configured to operate according to an oscillometric method of measuring blood pressure, comprising:

- an inflatable chamber, said inflatable chamber operable to be inflated during an inflation interval and deflated during a deflation interval;
- a sensor coupled to said inflatable chamber, said sensor configured to measure a signal according to the oscillometric method of measuring blood pressure, said signal comprising information indicative of a blood pressure of a vertebrate;
- a control module configured to receive as input at least a portion of said signal from said sensor, and to generate as output a control signal having a selected one of a plurality of values responsive to said input;
- a first analysis module, said first analysis module configured to analyze said signal during said inflation interval of said inflatable chamber at a rate greater than 3 mmHg per second before said inflatable chamber is fully inflated to extract from said signal a systolic blood pressure and a diastolic blood pressure of said vertebrate according to the oscillometric method of measuring blood pressure;
- a second analysis module, said second analysis module selectively operative in response to one of said plurality of values of said control signal, said second analysis module configured to analyze said signal during said deflation interval of said inflatable chamber to extract from said signal said blood pressure of said vertebrate according to the oscillometric method of measuring blood pressure;
- a motion detection module configured to receive as input at least a portion of said signal from said sensor, said motion detection module configured to detect a

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secondary motion of said vertebrate distinct from motion associated with said  
signal comprising information indicative of a blood pressure of a vertebrate  
and configured to communicate a value to said first analysis module;  
a neonate sensor module configured to represent whether said vertebrate is a  
neonate vertebrate; and  
a reporting module configured to report at least one of said systolic blood pressure  
and said diastolic blood pressure;  
whereby said apparatus completes said measurement of said blood pressure of  
said vertebrate using at least one of said first analysis module and said second  
analysis module; and  
whereby, in the event that said value of said secondary motion detected by said  
detection module is below a predetermined value, said apparatus completes a  
blood pressure measurement of said vertebrate using said first analysis  
module.

27. (Canceled)

28. (Canceled)

29. (Canceled)

30. (Canceled)

31. (Canceled).

Claim 32. (Currently Amended) ~~The method of claim 31,~~ An oscillometric blood pressure measurement method, comprising the steps of:

providing an inflatable chamber, said inflatable chamber operable to be inflated  
during an inflation interval and deflated during a deflation interval;

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measuring a signal comprising information indicative of a blood pressure of a vertebrate, said signal generated according to an oscillometric blood pressure measurement method;  
analyzing said signal during an inflation of said inflatable chamber at a rate greater than 3 mmHg per second before said inflatable chamber is fully inflated to extract from said signal a systolic blood pressure and a diastolic blood pressure of said vertebrate;  
if necessary, responsive to a control signal, analyzing said signal during said deflation interval of said inflatable chamber to extract from said signal said blood pressure of said vertebrate according to an oscillometric blood pressure measurement method;  
representing whether said vertebrate is a neonate vertebrate;  
wherein in response to a positive determination that said vertebrate is a neonate vertebrate, said method completes a blood pressure measurement of said neonate vertebrate by analyzing said signal during said deflation interval[[.]],  
whereby a measurement of said blood pressure of said vertebrate according to an oscillometric blood pressure measurement method is accomplished.

33. (Original) The method of claim 32, wherein said signal analyzed during said deflation interval comprises a signal occurring during at least one step deflation interval.

34. (Canceled)

35. (Previously Presented) The method of claim 32, further comprising reporting at least one of said systolic blood pressure and said diastolic blood pressure.

36. (Canceled)

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37. (Canceled)

38. (Canceled)

39. (Canceled)

40. (Canceled)

41. (Canceled)

42. (Canceled)

43. (Canceled)

44. (Canceled);

45. (Canceled)

46. (Canceled)

Claim 47. (Currently Amended) ~~The method of claim 46,~~ An oscillometric blood pressure measurement method, comprising the steps of:

providing an inflatable chamber, said inflatable chamber operable to be inflated

during an inflation interval and deflated during a deflation interval;

measuring a signal comprising information indicative of a blood pressure of a

vertebrate, said signal generated according to an oscillometric blood pressure

measurement method;

analyzing said signal during an inflation of said inflatable chamber at a rate

greater than 3 mmHg per second before said inflatable chamber is fully



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inflated to extract from said signal a systolic blood pressure and a diastolic blood pressure of said vertebrae; and  
if necessary, responsive to a control signal, analyzing said signal during said deflation interval of said inflatable chamber to extract from said signal said blood pressure of said vertebrae according to an oscillometric blood pressure measurement method;  
detecting a secondary motion of said vertebrae distinct from said motion comprising information indicative of said blood pressure;  
whereby, in the event that said secondary motion is below a predetermined value, said method completes said blood pressure measurement; and  
in the event that said value of said secondary motion detected by said motion detector module is at least equal to said predetermined value, analyzing said signal during said deflation interval of said inflatable chamber to extract from said signal said blood pressure of said vertebrae;  
representing whether said vertebrae is a neonate vertebrae[.];  
wherein in response to a positive determination that said vertebrae is a neonate vertebrae, said method determines said blood pressure of said neonate vertebrae according to an oscillometric blood pressure measurement method.

48. (Original) The method of claim 47, wherein said blood pressure of said neonate vertebrae comprises at least one of a systolic blood pressure and a diastolic blood pressure.

49. (Original) The method of claim 48, further comprising reporting at least one of said systolic blood pressure and said diastolic blood pressure.

50. (Currently Amended) The apparatus of claim 7 [[6]], wherein said neonate sensor module configured to represent whether said vertebrae is a neonate vertebrae comprises a neonate sensor module configured to deduce from a command issued by an operator whether said vertebrae is a neonate vertebrae.

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51. (Currently Amended) The apparatus of claim 7 ~~[[6]]~~, wherein said neonate sensor module configured to represent whether said vertebrate is a neonate vertebrate comprises a neonate sensor module configured to deduce from data in a database whether said vertebrate is a neonate vertebrate.

52. (Currently Amended) The apparatus of claim 24 ~~[[23]]~~, wherein said neonate sensor module configured to represent whether said vertebrate is a neonate vertebrate comprises a neonate sensor module configured to deduce from a command issued by an operator whether said vertebrate is a neonate vertebrate.

53. (Currently Amended) The apparatus of claim 24 ~~[[23]]~~, wherein said neonate sensor module configured to represent whether said vertebrate is a neonate vertebrate comprises a neonate sensor module configured to deduce from data in a database whether said vertebrate is a neonate vertebrate.

54. (Currently Amended) The method of claim 32 ~~[[31]]~~, wherein the step of representing whether said vertebrate is a neonate vertebrate comprises the step of an operator issuing a command.

55. (Currently Amended) The method of claim 32 ~~[[31]]~~, wherein the step of representing whether said vertebrate is a neonate vertebrate comprises the step of deducing from data in a database whether said vertebrate is a neonate vertebrate.

56. (Currently Amended) The method of claim 47 ~~[[46]]~~, wherein the step of representing whether said vertebrate is a neonate vertebrate comprises the step of an operator issuing a command.

57. (Currently Amended) The method of claim 47 ~~[[46]]~~, wherein the step of representing

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whether said vertebrate is a neonate vertebrate comprises the step of deducing from data in a database whether said vertebrate is a neonate vertebrate.